$\mathsf{DR} \times \mathsf{S} \in \mathsf{DOC}$ Malgorithms: Linear private data.

DRYBEDOC algorithms can not be decyphered by numerical computation.

Two unique, infinitely variable, <u>directional</u> data, algorithms: Alphabetic-Geometric: that may, or may not, agree in value. If they do; information. If they do not; no information. Each algorithm is naturally a no-overlay-one-time-pad. Existing characters can not be removed or substituted; additional characters can not be added. Any alteration effects the dual agreement and will be detected.

Each DRYBEDOC algorithm has a unique solution formula.

DRY ♦ (D) ⊂ **Salgorithm formula:**"Solve the message"

.b.1oB/a3\ef.bc/3Ld/b/H1/oB2I1ka/c2(1le/f23le\f._b1/ra33cL\dl1E3M_5cL algorithmnfDYBECpIAbcdeFGHJjKkLMNOPQqRSsTUuVvWwXxyZz AlgorithMnfDYBECpsambcdeFGHIJjKkLNOPQqRSTUuVvWwXxyZz PDB2, TELPOCS 1 3 AlgoRithMnfDYBECpSembarsdcFGHIJjKkLNOPQqTUuVvWwXxyZz

TELOS1 3, TELPOCS 1 3, S3, a5, PDB3, X6, PDB2, PDB3s, s2, e11, d12 space SPACE SPAce space SPACe space SPAce

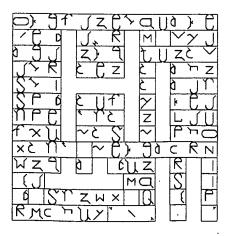
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DRYBEDOC data can be produced algorithmically in unlimited quantity;

DRYBEDOC algorithms can be delivered in many different styles and reproduced for solution by $\mathbb{R} \times \mathbb{R} = \mathbb{R}$ algorithm formula.

The following four styles can be algorithmized with the same information.

- 1. Blank No characters transfer
- 2. Single character .
- 3. DRYBEDOC square = 169 characters



 $.b.1oB/r3\tPl.c1/Ka2q0lcL.d..br1a/3ef\b(1pL/d3_bp.Ll.da<H..cL1d/3br/cl)Kb.r.1cL/d3\tPl.c1/Ka2q0lcL.d..br1a/3ef\b(1pL/d3_bp.Ll.da<H..cL1d/3br/cl)Kb.r.1cL/d3\tPl.c1/Ka2q0lcL.d..br1a/3ef\b(1pL/d3_bp.Ll.da<H..cL1d/3br/cl)Kb.r.1cL/d3\tPl.c1/Ka2q0lcL.d..br1a/3ef\b(1pL/d3_bp.Ll.da<H..cL1d/3br/cl)Kb.r.1cL/d3\tPl.c1/Ka2q0lcL.d..br1a/3ef\b(1pL/d3_bp.Ll.da<H..cL1d/3br/cl)Kb.r.1cL/d3\tPl.c1/Ka2q0lcL.d..br1a/3ef\b(1pL/d3_bp.Ll.da<H..cL1d/3br/cl)Kb.r.1cL/d3\tPl.c1/Ka2q0lcL.d..br1a/3ef\$ $a_d(bp1L/3ao\b..Np.a.1Kc/L3/dNlo1/bN2a\1Eb/b2/oBlr1/tP3c\.Ka.q..cL1d/3br\a(1ef)$ $\label{lem:locality} $$ \b3_.pLld..bplL..da.H1/cL3d\(br1c/3Kb_r.lcL.d<.br.p1/La3o_bN(p_lLdla1/db2p\1La/o2). $$$ /bNlp..aK1c/3Ka/q)lcL1d/3br(c\.Ka/M..ka.c1/lo3b\lNc1L/2dN0c1/Ld3N_1aH/o3(Br_a1/ $ef2b0lpL1d/3ad/b..pL.a.1aE/b3\cLld_(No_b..Na1E/3bc/Ll1db/r2\oB1r/2ob/Nl1bo/B3\rt$ $.P..cKla. < qc1L/3db(r\.ae/f..bp1L/2db0pl1Ld/a3_Hc1L/3db(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb(r1/cK3b\.rp.L..da.d/lbp_1L/adb0pl1Ld/a3_Hc1L/adb0pl1Ld/adb0pl$ $2do0b.lNp_a1/kc3Ll_db(r_luq1l/3mc\L..dN.o.1bN/a3\Ebll1/EF3p/.aM.c..lc1K/3aq\c_(Ld)$ $_bl.rc.K/lbr1p/2aM\b1/rl2e/lFq1u/3ql\m..pa\e1/fb3o/1oK/E3(Mc1L/3dN0o..bN1a/1Eb3)$ $\label{lef1} I/leF1q/2pa\M1/br2c/lKb1r/3cL\d..brlc_(Ka_M1/ka3c\lo.b..Np1a/3Kl/el1fc/F4_dr1c/3) and the substitution of the s$ o/3bN/l..EF.p1/aM3c/1lc/K20aq\a1/db2p0.La_p($_aq$)H1/cL2d0)br\p1/La2o/.bN1l/3EF\ $p8/aM9c0II.cK1a/3qa(d1/bc2L\1db/r2/qa_e/_fb1r/3cL\d..br.o.1Br/o3\bNlp1/aq3H/.bp$ $.L<.da.H1/cL3d\br_c(kb.r1/pa3M/lbr1l/2eF\q1/pa2K/lbp1L/3da\d..bp.L1/ao2b\(Np1a)$ $/3Kl_e.lfc.F.1dr/p3(aq1H/3cL_d.lbr.q<_ae(f_lbr1u/3ql\m..pa.q.lHc1L/2db\r1/qa2e/lfb1)$ r/3pL\d..bp_L1/db2p0lLa1a/3Eb\p..ae.f.1bo/o3\KEIM1/cL3d/.Na.H<.oB.r1/ae3f\lbc_L(_db(rl1pa/K3\bp.L.lda)H1/cL3d/.br.c..Kb/r..pa\M1/br3l(1eF/q20palK1/bp3L(1da/d3_bp $1L/3ao\b..Np1a/2Kl0e_.fclF1/dr3q/.ae.f.lbr_c1/Ld3bl_rc(K_laM1k/3ac\l..ob.N.1lE/F3\parble{fig:spin} all logical contents of the contents of t$ alM1/cl2c/1Ka/q2\adlb1/pL3a/.pa.q.1Ho/b3/Nq1a/2ef0b\rb1p/2Ld0p.)aq_H(_cL)dl1br/ $c3/Kb.r..palM\lbr.l.1eF/q3/palK1/bp2L\lda/d2/bplL1/ao3b\lbr.a.1Kl/e3\fc_F(_drll..EF1)$ p/3aM/cl1lc/K3\aq.a.1db/p5_La.p.1ae/f3/bo)ol1KE/M3/cLld1/No3b\lNa<E1/bp3a_(Kb1 p/3Ld\a..Holb_1Np/a3lklle(1fc/F3\dr.p..aKlb\lpL.d.adlb.<pLla\lob.N.1pa/K3\lelf1/cF5d_ $1rb/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3\rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/3Np(a1/qH3c(\Ld.b/.rq.a.1ef/b3/rp1L/3db_p1/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_bo1b/ab/p3/Ld.a.7Hc/L80dblr.1ae/f3_$ ae3f(lbo1o/2KE0.M./cLld1/No2b0_Na_E(bl_El1Fp/a3\Mc.l.1cK/a3/gclL1/dbr2\ga1e/2fb /rl1aH/b3\pL.dl<aHlc)1Ld/b3/rc.K.1br/p3(\aM.b./rl.e..Fq.p1/aK3b\1pL/d3_1ad/b3(pLla 1/ob2N0.pa._K1/le2f0lcF1d/3rp/a..qH.c1/Ld3b\lrq_a(_ef.b_1ru/q20lmlp1/ae3f\.bo.o1 /KE3M\lcL1d/2No0bl1Na/E3\bc..Ka1q/3cL(d1/br2c\/Kb1r/3uq/l..mp\L1/da3d/1bp/L3(ao1b/3Np)a1/Kc3K_(aq1a/3db\p..La1o/3bNlq_lae.f(lbr1o/3KE\M..cL)dl1No/b3/Na.E.1bq $/a20eflb.1rc/L3\db.r1/oB2r/1ob/N2\aH1b/3pL(d..aH1c/3ld\b_/ra_e./fb.o\1bN/p3(aM.)$ c.1lc/K3\ac1K/3aM(p1/aK3b_lpL1d/2aH0o..bN_p1/aK2l0lef1c/Fd3r/.pa.q1/Hc3Ll_dblr.l $qa(e1/fb3r\.aH.q1/ae3f\lbr1c/3Ld/b<lro)B1/ro3b/.Np.a.1qH/p3\afle1/bo2o/1KE/M2\c$ $LId1/nK3N/.Ef.p1/aK3I/lef1c/3Fd\r<_pa(q_IHc1L/3db\r..qa.e1/fb3r\plus fb3r\plus fb3r\$.bp1L/3aa\E(1ba/H3_ob.rl_ka1c/3lllEl(Fp1a/3Mc\l..cK.a.)qclL1/db3r/.qa.e7/fb9r0.aH.o $1/bN3p\ld.a1/Hc2L/1db2r\1qa/e3(fb.r.1cK/b3\rp_a/_qH1c/3Ld(b\rp.L_1ao/b20NIIE)$ $1/Fp3a(1Mc/l3_cK1a/3qa\d..bc.L.1db/r3lE/fl_pa1M/2cl0c..Ka1q/3ad\b_(pL_al.palq1/Hal.p$ $c3L/1db/r3\\qale..fb.r/)uqll.lmp.a.1/Kb3p\\8ld/a90db1p/3La(o1/bN2p\\1aK/l2/ef_c/_Fd)$ $1r/3pa\K..bp.L.1da/H3\ob(N1/pa3K_.lelf.<cF)dl1rc/L3/dN.a.1Ho/rB2ae0f1/bp3L\lda.H1$ /cL3d(1br/c2\kb1r/2pL/d_/ad_b1/pL3a\.ob.N.1pa/K3/cKla1/qa2d\1bp/L2/aplL1/da3H \.cL.d.1br/a3/eflb).pl.d\laH1c/3Ld/b..rc<K1/br3p(1Ld/a2\db/p1/La3o/.bN.p..aK1p/3Ld p1/La2o0.bN7c/8Ka0ql.ad1b/3cL_d1/br3c()LdlN1/ob3N/.aE.b1/cK3a\5qc/L60dblr.1aH/ $p3(Ld1a/2Ho\b1/Np2a/.Kp.L1/da3d_bp/L_.ao.b1/Np3a\Kp<L1/da3H/.cL.d.1br/a3\ef_$ b(_palq.1Hc/L3/dblr1/pL2d\1bc/L2/dNlo1/bN3a\.Eb1c/3Ka_q(1cL/d3\br.a..HplLl1da/H

 $3_cL(d1/br3c)<Kb.rllcL_d(_br1p/3La)o..bN.cl1Ka/q2\ad1b/2cL/dl.brlb)1bp/L3/da.H..ob$ $IN..cK.a1/qa3d\(bc1L/3db_r<IpLId_)ad_b1/pL3a\.ob1N/3pa/KI1pa/M2\br1c/2Kb/rl1bq/$ $a3\ef.b1/rc2K0_aqla1/db3p\.La.c1/Ld2b(\rp/L1/ao3b\1Nc/K3_aq1a/3db(c\1Ld/b20rc)$.L.1dN/o3/bNla._1Eb/c20Ka.q1/cL3d_br(a_lHplL1/da2d\1bp/L2/aolb.1Np/a3/Kp)Ll.da1 $H/3cL\d(1br/a3_ef.bl.pa1q/3Hc\Ll1db/r2\pL1d/2bc/Ll1dN/o3\bN.a_(Eb_p))Ldla1/db3p$ /.La.a.lEb\cl.Ld.N.1ob/N3/aElb1/cL2d\1br/o2/Brlo1/bN3c\.Ld.N..ob1N/3aE\b_(pL_dlaH. c_1Ld/b20rclK1/br2c0.Ld7b/8rp0Ll.ao1b/3Nc(K1/aq3a_)dblp1/La3p/.Ld.a.1db/p3\La(o 1/bN3p_laK_p1/aM3bllrc(K1/br3b\.qa.e..fb1r/3cK/a)lqald1/bp2L01ac/L3\db1r/3pL(a1 $/ob2N\1cK/a2/qa_d/_bc1L/3db\r.1cL/d3\nolb1/Na2E0lbc1K/3ag\c._Ld1b/2ra0Hl1pL/$ $d3\aH.ol1bN/p3/aKlp1/Ld2a\1db/p2/Lalo1/bN3p\.aK.p1/Ld3a\(Hc1L/3db_r.lae_f1/bp3)$ $allqH(c1/Ld3b\.rp.L)ldb1c/3Ld/N..ob.N.\aE1b/2cK0al.qc1L/3db(r1/aH2c\1Ka/q2/ad_b/allqH)$ _pL1a/3cL\d..br1u/3ql(m\.cL/d..No.b1/Na3E\lbc1K/2aq0c1/Ld3b_1ra/H3(ob.N.1cL/d3 /NoIB1/rp2a0_Kp.a.IMc_I1/cK3al_pL(d_laH1c/3Ld\b..rc.K.1br/p2\Ldla1/db2p/1La/o2\b Nlp1/aK3c/.Ld.b.1rc/K3/aM1k/2ac0l\1ob/N20cK)a_(qa_dl)bp1L/3ao/b..NclK\laq.a1/db3 p\(La1c/3Ld_b.lru_q1/lm3pl.Ld.a1/db3p\lLa(o..bN1p/3aK/p)lLd.al1Ho/b3.Np1a/2Kc0K1 $/aq2a/1db/p2\La1c/3Ld(b1/rp3L_ao/b_1Nc/K3_aq(a1/db3c\.Ld1b/3rc\Ll1dN/o3/bN.$ $a < Eb(c_lKa1q/3cL\d.lbr1a/3Hp\L1/da3d/lbp.L.1ao/b3/Npla) < Kp.L.1da/H3\cLld1/br3a/lbp.L.1ao/b3/Npla) < Kp.L.1da/H3\cLld1/br3a/lbp.L.1ao/b3/Npla/lbp.L.1ao/b3/Np$.ef.b..pa1q/3Hc\Li_db(r_.pL1d/3bc/Ll1dN/o2\bN1a/2Eb/pl1Ld/a3\db.p..La1a/3Eb\c(1L d/N3_oblN..aE1b/3cL\dl1br/o2/Br1o/2bN\pl1Ld/a3/Hc.L..db1r/3cK/b1/rc2L0\db1r/2p L0a(_ob)N_.cK.a1/qa3d/)bclL.ldb\rl.cL.d.1No/b3\Na(E1/ba3H_.oBlr_1ae/f3lbp(Ll1da/H3 $\cl.d.$)brlc1/Kb3r/.ka.c1/lc2K0laM.p1/aK3p\..La1p/3Ld(a1/db2p\1La/c2/.Ld.N.1KN/E3 $fp_a/_Kp.a1/Kb3p\ld1a/2Ho/b1/Np2a\lKl1e/3fc/F.1dr/p20ag\H1/cL2d01br/g3/ae.f$)_br(p_1Ld/b20bp\L)1da/H2/cL.dl1br/a20ef1b/3ob\N.. $IE1F/3pa(M1/cl2c\1Ka/g2/cL_d$ $/_br1q/3ae\f..br.a1/HI3E/IFp1a/2Mc/I1/cK2a\iga1d/3bc\L..db.r.1pL/d3/ad1b/2pL0a\1$ aE/b20pa.e_)fb_o()oKlE1/Mc3L/.dN.o.lbN\al.Eb.q1/ae3f/lbr1c/2Ld\b1/ro2B/lro1b/3Np\ $a..qH.b1/pL3d_pa(q_.HclLl1db/r3/cK1b/3rp0a1/Mb3r(.le1F/3qp/al1qH/c3\Ld.b<1rp/L$ 3_ao(B1/NI3E\.Fp.a1/Mc3Il_cKla.lqa(d1/bc3L\.db.r..bp1L/3da/HI)cL.d1/br2c0.Kb.r1/pa $3M\br.11/eF3q/1pa/q3\Hc1L/3db(r..pL1a/3ob\N_/pa_K..bp1L/3da/dl1bp/L2\ao1b/2Np$ /al1Kl/e3\fc.F.ldr_l(_EF1p/3aM\c..lc.K_1aq/a20dblp1/La2p0.aq8H/9cL0dl.br1q/3ae(f1 /br3u_lqlm)1pL/d3/ad.b..pL.a1/ob3N/lpa1K/2le\f1/cF2d/lrq1a/3ef\b..rc.L.1db/r3/cK1 $a/2Mk0a\1cl/o20bN.l(_EF)p_)aMlc1/lc3L/.db.rl\cKlb1/rp3a(\Mb.r/.le.F1/gu2g0llm1p/3L)$ d\a..db1p/3La_o1/bN3p(1aK/l20ef_cl1Fd/r3/lE.Fl_pa1M/3cllc..Ka1q/3ad\b(lpL.a.1pa/q $3/Holb1/Ng2a\1ef/b2/rpla1/qH3c\.Ld.b.1rp/L3\aolb_(Np_L<1da/d3\bplL1/ao3b/1Np/a$ $3(K11e/3fc0F1/dr3I/EF.p1/aM3c\(lc1K/3aq_c.lLd_b1/ra3el(fblo1/bN3p\.aK.l)lef1c/3/.$ Fd.r.lpL1d/3aH\o..bN1p/2aK0l.1ef/c3(Fd1r/2qa\e1/fb2r/_ob/N_1pa/q3\Hl.e..Fq1p/3a $\label{lem:mbl1rc/K2} M/bl1rc/K3\aM.k..ac.l1/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f\1bo/ob3N\pa(K_lle<f1/cF3/dl1rp/3ae\f)$ $3/KE1M/3cL0d1/No3b(1Na/E3_bq(a1/ef3bl.rc.Ll_db1r/3cKla..Mk1a/2cl\o}(bN)pl1Ld/a3$ /db.p.1La/a20Eb1p/3ae\fl1bo/o3(KE1M/2cL\d1/No2b/_Na/E_1bq/a3\ef.b1/rc3L/ldb1r /2cK\a1/mk2a/lcl1o/3bN\p._ld(a_ldb1p/3La\o..bN_p1/aK2l0lef1c/2Fd0r..palM5/br6c0 1Kb/r3_bq1a/3ef(bl)rp1/Ld3a/.Hc.L..db1r/3cK\bl1rp/L2/da1d/2bp\Ll1ao/b3/.Np.a..Kp 1L/3da/H1/ob2N0\pa1K/2cK0a.)qc_L(_db.r.1cK/b3/ru)qlllm\pllLd1a/3db_p(1La/o3\bN. p.<aK.ll.ef.c.1Fd/r3\palM_(cl_c.lKa1q/2ad\b1/cL2d/lbr.pl)ae1f/3bo/o..KE1M/3cL(d\/No .b.1Na/E3\bp1L/3da_d1/bp3L(lao1b/2Np0a1/Kl2e0_fc.Fl1dr/p3/Ld.p..ag.H1/cL3d_br($a_{ef.b.1ob/N3/palg1/Hc2L\1db/r2/gale1/fb3r\.pL.d<lbp.a.\ef1b/3oo(K/.EM.c.1Ld/N3)$ oblN1/aE2b0.pL1d1/ad3b(1pL/a3_ob1N/2pa0K_lle1f/3cF/d..rqla_1ef/b3lro.K.1EM/c3\L

 $dlN(1KN/E3\fla1/Kl3e/<fclF_(dr_q1/ae3f\.br1o/3KE/Ml1ob/N2\aE1b/2aq/el1fb/r3\cleanselfclf) \\$ $. d1/br3u(1ql/m30pa1q/3Hp/L\.da1d/3bp\L(1ao/b3_Np1a/3l_Klle..fc.F1/dr3q\(aelfl)br1a/3l_Klle.$ $c/3Ld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/fb2o/1oK/E2\Mc1L/3dN(o_/bN_a1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.I1/ob2N0lpa.e1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.II/ob2N0lpa.e1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.II/ob2N0lpa.e1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.II/ob2N0lpa.e1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.II/ob2N0lpa.e1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.II/ob2N0lpa.e1/Eb3I\.EF.p.c/sld/b..rc.K.1aM/k3\ac.II/ob2N0lpa.e1/Eb3I\.EF.p.c/sl$ $1/aM3c\lc1K/2aq/a1/db2p\lc1q/3ae/f1br/c2Ld0b\1rp/a20qH1u/ql3m/.pL.d_)ad_b()$ 1bp/L3\ao.b..Np.a1/Kl3e/lfc1F/2dr\q1/ae2f/lbr1c/3Ld\b..rc.K.1aM/k3\acll_(ob_N..pa1 e/3fb\ol1oK/E3/Mc.L.<dN1o/3bN0a1/Eb3l(1EF/p3/aM\c..lc1K/3ag\al1db/p2/La1g/2ae\ $fl1br/c3/Ld.b..rp.a1/qH3u/1ql/m20pa\e1/fb2o0)oK_E(_Mc1L/2dNl0)EF\p1/aM2c/.lc.K1$ $/aq3a\ldb.p1/La2p01aq/H2/cL1d/2br\q1/ae3f(.br.u13ql\m_/pL_d.1ad/b3\pLla1/ob2N)$ /1pa/K2\lelf1/cF3/d..rq.a13ef/b_ro(K_IEM.c_1Ld/N20KNIE1/fp2a0.KI7e/8fc0Fl.dr1q/ 3ae(f1/br3c_)Ldlb1/rp3a/.qH.u..ql1m/3pa\e1/fb3o_1oK/E3(MclL1/dN2K0.NE.f_1pa/K2 Olle1f/2cF0d_.lrq1a/2ef0b..rclL..db.r1/cK3a\(Mk1/a3_cllo<lbN_p(_Ld1a/3db\p..Lala1/E b2q\1ae/f2/brlc..Ld.b1/rp3a/lqH)u1/ql3m(\pa.e/.fb.o1/oK2E0lMc1L/3dN\K..NE1f/3pa(2aM/bl1pL/d3\aH.c..Ldlb.<ra)el1fb/o3/bN.l..EF.p1/aM3c\llc.K1/aq2c0lLd.b..rq1a/3ef\b($1 ra/H3_ob.Nl_pa1K/3bplLi(da1d/3bp\L..ao.b.1Np/a3/Kl)el1fc/F20dr1q/3ae\fl1br/c3(Ld)el1fc/F20dr$ $1b/2rc\K1/aM2k/_ac/l_1ob/N3\pa1e/3fb/ol1oK/E2\Mc1L/2dN/ol1bN/a3\Eb1b/3pL\dl$ $_aH(c_.Ld_b1/rc2K0lbr1p/2aM0b..rlle1/Fq3p_1aK/b3(pL5d/0ad)bl1pL/a3/ob.N.1pa/K3\$ lelf1/cF2d/1rq/a2\eflb1/rc3L/.db.r.1cK/a20Mk\a1/cl2o01bN/p3/ae.f_)bo_o(IKE)M1/cL $3d/.No.b.lNa\El.bllE..Fp1a/3Mc\I(1cK/a3_qclL<.db.r1/qa3\e_(fb_rl.aH.b1/pL3d\IaH.c_1L)$ $d/b20rc1K/3aq\pl1aM/b20rl1e/3Fq\b..pL.d1/aH3c//Ld1b/3ra\e1/fb3o(lbN1p/_aq(H1/aH3c/Ld1b/3ra))$ cL3d\.br.ql.ae<f..br1p/3Ld\bl_pL(d_lad1b/2pL\a1/aE2b/lpa)ql1Hq/a3/ef.b..ro.b1/Nb3p /lLd1a/3Hc\L..db<r..ae1f/3bo\b_(Np_al1/qH3c/lLd1b/3rq\a1/ef3b/lrp1L/3db\p1/aK3b _(pL1d/3ad\b..pLla..ob1N/3pa\K(1le/f3_cFld_1rp/a3lqH.c.1Ld/b3\ra(qllef\bl.rplL1/db2 b0lpL.d1/aH3c\.Ld.b..ra1e/3fb\o(1bN/p3_aelf_1bo/o3lKElM(1cL/d3\.No.bl)Na1E/3bb/p.. $Ld.a1/Hc2L01db/r3lcKlb.1rp/a3(Mb1r/2le\F1/qp2a/_Kb/p_1Ld/a3\db.p..La1o/3bN\pl1$ $aK/l3/ef.c. < Fd.r1/pa3q \\ lHc_L(_db1r/3qa \\ el1fb/r2/pL1d/2bb \\ pl1Ld/a3/Hc1L/3db_r(1a) \\ lf(1a) \\$ $e/f3\bo.b.lNpla..ef1b/3oo\K(1EM/c3_Ld<N.lob.N..aE1b/3pL\d_(ad_bllpL1a/2aE\b1/pa2M)$ /lcllc)1Ka/c3/Ka.M..pa.e1/fb3o\lcL1d/2NK/N1/Ef2p\laK1I/3ef/c..Fd.r.1ga/e3/fb1r/2ob ON\1pa/q20Hp.a_)ef_b()oolK1/EM3c/.Ld.N.IKN\EI.fp.a.1KI/e3\fc1F/3dd_r1/pa3M(IcI1c/ 2Ka0c..KalM._qa1e/2fb0r.1ob/N20palq._Hb1p/2Ld0a..Hc1L/3db\rl1ae/f2/bo1b/2Np\al1 Mc/I3/cK.a.)cK_a(_Mp)a1/Kb2p0\Ld1a/2Ho/b.1Np/a3\KIle.1fc/F20dr.I1/EF3p(1aM/c2\I $c1K/2aq/a..db1p/3La\p_/aM_c.llc1K/3al_E(1Fp/a3\Mc.l..cKla.<qald_(bc_L1/db3r\.lE.F.l.)$ pa1M/2cl\c1/Ka2q/lad.bl)pL1a/3pa/M..cl.c.1Ka/c3\Ka1M/3IE_F1/pa3M(Icl1c/2Ka0q._ad $1b/2cL0dl_br1l/2EF0pl1aM/c20lclK1/aq2c01Ld/b3\ralH..ob1N/3cL\d(1na/H3_oB.rl.ae<$ $f..bp1L/3da\H)lcL1d/2br0cl.Kb1r/3ka\c..lc1K/3aM(p1/aK2p\1La/c2/Ka_q/_ad1b/3pL\2br0cl.Kb1r/3ka\c..lc1K/3aM(p1/aK2p\1La/c2/Ka_q/_ad1b/3pL\2br0cl.Kb1r/3ka\c..lc1K/3aM(p1/aK2p\1La/c2/Ka_q/_ad1b/3pL\2br0cl.Kb1r/3ka\2br0cl.Kb1$ $a..pL1d/3aH(c\ld1b/3ra\el1fb/p20aK.b1/pL3d_1aH/o3(bN.p.1aK/l3/eflc_1Fd/r20pa.q)$ I_Hc1L/3dblrl(qa1e/3fb\r..pL.d.1bb/p3\Ld1a/3Hc_L1/db3r(lae1f/2bo0b..NIIE_1Fp/a20M c1l/2cK0a_.qclL1/db2r0.qa\e1/fb3r(/aH.l.1EF/p20aMlc1/lc3K_1ag/a3(db1c/3Ld\b..rl.E $_1Fp/a20Mcll1/cK3a/.qc.L.ldb_r1/cK3bl.rp.a1/Mb3r_le(F_lqu.q/.lm\p1/ae3f(.bo1o/3K))$ E\M1/cL2d_1No/b3(NalE1/bl2e0.Fq1p/2aM0b_.rclK1/br3c/.Ldlb_1rc/K3laMlk(1ac/l3\ob .N.<pa.K1/le3f\lcF1d/3rc/K.laq_a(_db1p/3La\c.lLd)b1/ru3q/.lm.c1/Ld3N(\ob.N/.aE.b1/ cL2d0lbr1c/3Ka\M..ka1c/3lo_b1/Nl3E(/Fpla_1Mc/l20cK1a/3gald_lbp.Ll_ap(a_1gH/c3\L $d.b..rp.L1/ao3b\lNl1E/2Fp/a1/Mc2l\lcK1a/3qa/d..bc.L.1db/r3/qa1e/2fb0r\lcL/d20br.o$ $(Br_0)bNlp1/aq3H/.bp.L.lda\Hl.cL.d/.br\c1/kb3r(.pa1M/3br\l1/eF3q(1pa/K3_bplL1/da)$

 $2d0.bp1L/2ao0b_.Npla1/Kl3e/.fc.F..dr1p/3aq\\Hl_cL(d_.brlq.\\< aelf)1br/u3/ql.m.1pa/q3_$ $\label{lem:lem:hcl1/db3r} Hc(L1/db3r) = 1/fb3r + 1/fb3r$ $/H1/oB2r0\ae1f/2bc0L1/db3r/_pa(K_)bp)Ll1da/H3/cL.d.lbr\cl.Kb.r1/pa3M/lbr1l/2eF\q$ 1/pa2K/lbp1L/3da\d..bp.L.1ao/b3\Npla_(Kl_e..fc1F/3dr/ql1ae/f5_br1c/3Ld\b..rc.K.1a $\label{lem:mk3/acll} $$M/k3/acll)<ob.N.11E/F3\pi/cl3c/.Ka.ql.ad.b1/pL3a(pa1q/3Ho_b1/Nq3a)lef1b/3rb/p$ <ILd_p(_aq1H/3cL\d..br_c1/Kb2r0lpa1M/3br\l..eF.q.1pa/K3\bplL1/da2d0lbp1L/3ao\b..</pre> Np1a/3KI(e1/fc2F\/dr1I/3EF/p..aM.c.<lc1K/3aq/al1db/p3\La.p..ae.f1/bo3o_KE(M_lcLI $d(1No/b3\Na.E..bp.L1/da3d/)bplL/\ao1b/3Np(a1/Kl3e\1fc/F3(dr1p/3Ld_pl1aq/H20cL1)bplL/\ao1b/3Np(a1/Kl3e\1fc/F3(dr1p/3Ld_pl1aq/H20cL1)bplL/\ao1b/3Np(a1/Kl3e\1fc/F3(dr1p/3Ld_pl1aq/H20cL1)bplL/\ao1b/3Np(a1/Kl3e\1fc/F3(dr1p/3Ld_pl1aq/H20cL1)bplL/\ao1b/3Np(a1/Kl3e\1fc/F3(dr1p/3Ld_pl1aq/H20cL1)bplL/\ao1b/3Np(a1/Kl3e\1fc/F3(dr1p/3Ld_pl1aq/H20cL1)bplL/\ao1b/SNp(a1/Kl3e\1fc/F3(dr1p/3Ld_pl$ $d/3br/al_ef1b/2ob0N..palq_1Hc/L3ldblr_(qa_e1/fb3r\lpL.d1/bp3a_(ef1b/3oo\K..EM.cl.)$ <Ld.N1/ob3N\laE_b(_bp_L1/da2H0lcL1d/3br\c..Kb.r.1pa/M3\brlI1/eF2q0lpa1K/3bp\L..d $a.d.1bp/L3/ao/b1/Np2a\\1KI/e3(fc<F..dr1p/3aq\\HI1cL/d3/br.q..ae1f/3br\\u_(ql_m.lpale)$ $(1fb/o3\oK.E..Mc.L1/dN3o/lbN)al1Eb/c20Kalq1/cL3d\1br/c3_Kb(r1/uq3l\1mp/L3lda_dl.$ bplL(1ao/b3\Np.a.lKc)K1/aq3a/.db.p..La1o/3bN\q1/ae2f0lbr.o1/KE3M(1cL/d2\No1b/2N $a/E_/bq_a1/ef3b\.rc1L/3db(r\.oB/r.1ob/N20aHlb1/pL3d_1aH/c3(ld1b/3ra\e..fb.o.1bN)$ /p3/aMlc._lc1K/2ac0K.laM_p1/aK3bllpL(d1/aH3o\.bN.p..aK1I/3ef/cl1Fd/r3\pa.g.<HcIL_($db_r1/qa3e \.fb.r..aH1q/3ae/fl1br/c2 \Ld1b/2ro/Bl1ro/b3 \Np.a.1qH/p3(af1e/3bo0o1/K) \label{eq:bl1}$ E3M/\cL1d/3nK\N(1Ef/p3_aK.ll_ef1c/3Fdlr(lpa1q/3hc\L..dblr)1qa/e3/.fb.r1/pL2d0.b $p.L1/da3d\lp.L1/aa2E/1ba/H2\ob1r/3ka(c..ll1E/2Fp\a_/Mc_l.1cK/a3/qclL1/db2r\1qaBa/dclL1/db$ /e2/fblr1/aH3o\.bN.p_(Ld_al1Hc/L3\db.r..qa_e1/fb2r0lcK1b/2rp0a.8gH/c90Ldlb1/rp3 $L(1ao/b3_NIIE)1Fp/a3/Mc.l..cK_a1/qa2d0lbc1L/3db/rl_IE(f_1pa/M3\cl.c..Ka_q1/ad2b0lbc1L/Adb)lbc1L/Adb/rl_IE(f_1pa/M3\cl.c..Ka_q1/ad2b0lbc1L/Adb/rl_IE(f_1pa/$ pL1a/3pa\q.1Hc/L30db1r/3qa(e1/fb3r/luq1l/3mp_a(1Kb/p3\ld.a.ldb_p1/La3ollbN(p1/a K3I\.ef.c..Fd1r/3pa/K)lbp1L/2da0H1/ob3N\lpa.K._le1f/2cF0dl1rp/L3/da.d..bplL_1aa/E3 lbg(al1ef/b3\rc.L.ldb)r1/pa3g/.Hu.g..lm1p/3ae/fl1bo/o20KE1M/3cLld_INK.NI(Ef1p/3aK\l $..ef.c1/Fd3r_qa(e_lfb1r/3cL0d1/br3c(1Ka/M3/ka\c(_lo)b_)NclL1/dN3a/.Ho.B.lra\el.fb$ $lp_(Ld_a1/Hc3L\.db_r1/cK2b0lrp1L/2da0d.7bp/L80aolb1/Np3a_1Kc/K3(aq)al1db/p3/.L$ a.c.lLd.N..KN1E/3fp\a(1Ko/b3_Na<e1/fb3p\lLd1a/3db/p1/La3o\lbN_p(_aK.k_1bm/c20K alM1/ka3c\.lp.L..da1H/3ob\Nl1ae/f20bclK1/br3c\.Ld.b1/rc3K(1aM/k2\acll1/ob3N/.pa.K ..pL1d/3ad\bl.pL1a/2ob0Nl.pa.K.1pL/d3\aH(c1/Ld3b_1ra/e3lfb_cl.Kalq(1ad/b3\pL.a..pL $.d1/aH3c/)Ldlb.lrc1K/2br0p1/Ld3a\.db1p/3La(a1/Eb2b\1cK/a2/Mk_a_cl1p/3Ld\a..Hc$ /L.\db1r/3cK(b..ro1b/3Na\e1/fb3c_1Kb/r3(cLld1/br2c0.Ka.M.1ka/c3/lolb._Np1a/2Kp0 $Ll_da1d/3bp\L1/ao3b\Np(a1/Kp3L/Ida1H/2cL/d1/br2a\ef1b/3pL/d1/aH2o0\bN1p/2a$ $K0k1/bm3c/.Ka)M_(tP_c)IKb1r/3pL/d..tPlp\ILa.pl.aK.p.1Ld/a3\Hc(L1/db3r_<ae1f/3bc)$ $KI1aq/a3/db1p/3La\cl_Ka(M_.aH_o1/Br2a0lef1b/3cL\d..br.u.1ql/m3\pLld1/pa2q0lHo1b$ /3Nq\a..ef1b/3ra(H1/cL2d\lbr1a/3ef/b..ob.N.1bc/K3\aMlk.1ac/l20pLld..ad.b1/pL3a\(ob $1N/3pa_K1/cL3dl_brlc.lKb(r1/cK3a\.Mk.a..cl1o/3bN/p)laK.cl1Ka/q20ad1b/3pL\.a1/pL3$ $d(1aH/c2\Ld1b/2ra/e_\fb_p1/Ld3a\.Hc.L/.db\r1/cK3b(.rp.L1/da3H\1ob/N3_pa1K/3cL)$ (dl1br/p20la.o..bN1c/3Ld/Nl.ob_N1/ae2f0lbp_L1/da3H\1ob/N3\aelf(1bc/K3/aqlc1/Ld2 b/1ra/H2\bclK1/aM3t/1Pc/K20br\c1/Ld2N01aH/o3/Br.a)_ef(b_)pLld1/tP3p/.La.pl\aKI $m<1bk/c3\KalM1/tP3c/lKb_r(_cK1a/3qa\d1/bc3L/ldb1r/2pL\d1/tP2p/lLa1p/3aK\c1/akllc2plc3klc2plc$ Ka3q\(cL1d/3br_al1Hc/K3\br(k1/ac3l_.cKlal(Mp1a/3Kp.L.lac\Ll1dN/o3\bNla1/ef2b/1cL $d2\NalH1/oB3r/1ae/f20bp\L1/da2d01bp/L3/ao(b_)Np_a<.KclL..db.r1/pL3a/lob1N/3cL$ d.lbr_c1/Ka3gl(cLld1/br3a\.Hc.K.lag\al.db.c.1Ld/b3\rolb1/Nb2c\1Ka/M2/tPlc1/Kb3r/.c $K.a..qc1L/3db/r1/aH2o0\bN1p/2Ld0a.)db_p(_La)ol1bN/p3/aK.k.lbm\cl1Ka/M3/lka1c/2l$ c\K1/aq2c/ILd1b/3ra\H_(ad_bl1cL/d3\br1c/2Ka0ql_cL1d/2br0c5/Kb6r0lug.l1/mc3K_

 $1aq/c3(Ld)bl1ra/e3/fb.o.1bN/p3_aK(p1/aq3H\.cL.d.lbr.p<.Ld1b/3cK\a_(qa_dl1bc/L20d)$ b_rl1cL/d3\br.p..La.o1/bN3p\(Ld1a/3Hc_Ll_db1r/3cKlbl(rc1K/3aq\c..Ld.b.1rc/c3/Ka)M $11ka/c20lo1b/3Nc\L11dN/c3\Ka(q1/cL3d_lbr<al)Ho1b/3Nb/c..Ka.Ml1tP/c3/Kb1r/2aH0o.$ 1Br/a20ef.b_lpL1d/3aH/c..Ld.b.1rc/K3\br_k(_ac.ll.cK_a1/Mp2a0lKp1L/3ap\L..da1d/3b $p(L1/ap3L01da/H3/cL\d/\br1a/3ef(b..pL1d/3\lad1b/2pL0a.1aE/b3_pa1e/3fb(o._oK1E))$ /2McOLI1dN/o3/bN.al.Eb_q(_ae1f/3br\c._Ld1b/2ro0Bl1ro/b3\Np1a/3qH\bl1pL/d20palq $1/Hc3L\.db1r/3cK\b/1rp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/Mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/mb.r1/le3F01qp/a3(qH1c/3Ld/b\1rp/L3\aolB1/Nl2E/1Fp/a3/mb.r1/le3F01qp/a0/mb.r1/le3F01qp/a0/mb.r1/le3F01qp/a0/mb.r1/le3F01qp/a0/mb.r1/le3F01qp/a0/mb.r1/le3F01qp/a0/mb.r1/le3F01qp/a0/mb$ a2\Mcll1/cK3a/.qa1d/3bc/L1/db2r0\bp1L/2da0H._cL(d_)br)cl1Kb/r3/pa.M..brll\leF.q1/ pa3q(1Hc/L2\db/r1/pL3a/.ob.N.1pa/K3\bplL1/da2d0lbp1L/3ao\b..Np.a_1Kl/e20fclF1/d r3l\.EF.p._aM(c_llc1K/3aq\a..db.p1La/p20aqlH1/cL2d0_br.q.l8ae/f90br1u/3ql_m1/pL3 $d()adlb1/pL3a/.ob.N.1pa/K3\le1f/2cF0dl.rq1a/3ef(b1/rc2L\1db/r2/cK.a1/Mk3a_cl/o_$.bN.I1/EF3p\laM.c1/lc2L0ldb.r.1cK/b3\rp(a1/Mb3r_<le.Fl)qulq1/lm3p..Ldla1/db2p01La/ o3\bN.p1/aK2l/1ef/c2\Fd1r/3lE(F..pa1M/3cl\c_/Ka_q.lad.b.1/pL3a\1pa/q20Holb.1Nq/a $3_ef(b1/rp3a\.qH.cl_Ld1b/3rplLl(ao1b/3Np\L..da.d.1bp/L3/aolb)lNp1a/3Kl\e1/fc2F01d$ $r/l3(EF1p/2aM\c1/lc2K/_aq/c_1Ld1b/3ra\el1fb/o3\bN(p1/aK3l_<eflc.lFd_r(_pL1d/3a))$ H\o..bNlp1/aK2l/1ef/c2\Fdl.rl)qa1e/3fb/r..ob<N.1pa/q3\Hlle1/Fq3p/.aMlb_(rc_K1/br3c \.Ld.b1/rc3K/laM1k/2ac\l1/ob2N/lpa1K/3le\f.1cF/d3\rp(a1/qH3c_.Ldlb..rq1a/3ef\bl1r p/L2/db1b/2pL\dl1aH/c3/Ld.b1/ra2e0\fb1o/2bN0b1/pL3d/.aH.c(_Ld)b_)rgla1ef/b3/rc .K..brll\lEF.p.\aM1c/3lc(K/.aq1c/2Ld0bl1ra/e3_fb1o/3bN(p1/Ld3b\.pa.e._fb1o/2oK0El1 $Mc/L3/dN.o.lbN_a(_Eb1q/3ae\f..br.c.1Ld/b3/rclK1/aM2k\1ac/l2/oblN1/pL3d\.ad.b<lpLl$ a..aE1b/3pa\e(1fb/o3_oKIE<IMc_L(_dN1o/3bN\a..Eb.g.1ae/f3\brlc._Ld1b/2rc0K..am1k/ $\acli1/ob2N0lpl1d/3ad\b..pL1a/3ob(N1/pa2K\le1f/3cF/d..rp.al1Mb/r3\cK.b.1rb/g20ae$ $If..br.p1/Ld3a\\(Hc1L/3db_r.icK_b1/rp3Ll.da.d1/bp3L\\lao(b)INp1a/3Kp/L..da.H.1ob/N3\\(Interpart of the context o$ $pa1K/2cK0al.qc1L/3db(r1/cK2b\1ru/q2/lm_p/_Ld1a/3db\p..La.o.1bN/p3\laK1l/3ef/c..$ Fd<rl_pa(M_1cl/c3\Ka.q..ad1b/3cL/dl1br/p2\ae1f/2bo/ol1KE/M3\cL.d1/No3b(1Na/E30 bp1L/3da/d\.bp.L1/ao3b\lNp1a/2KI/e1/fc2F/ldr1q/3ae/f..br.o.1KE/M3/cL1d/2NK0N\1 3mp(al1qH/p20Ld.a._db1p/2La0ol1bN/p3/aK.l..eflc_1Fd/r3lqa.e.1fb/r3\cL(dl.br.c1/Ka3 $\label{lem:lem:main} $$M \leq 1 - (b_100/K3\EM.c..Ld.N1/ob3N \leq b) $$IE1F/3pa/M...cl.c/.Ka = 1/ad + (b_100/K3) = 1/ad + (b_100/K$ 3b(.pL.a1/qa3e\lfb1r/2cL0d1/br3p_1aq/H3(uq.l.1mp/L3/dald._bp1L/2ao0bl_Np1a/3KII e..fc1F/3dr\l_(EF_pl>aM>c1/lc3K/laq1a/2db\p1/La2p/laq1H/3cL\d..br.q.1ae/f3\brlu_(ql_m..pL1d/3ad/bl1pL/a3\ob.N.1pa/K5_le.f.1cF/d3/rgla)1ef/b3\rolK1/EM3c/<Ld.N/.KN $\E1/fp3a(.Kl.e1/fc3F\1dr/l3_EF1p/3aM(cl1lc/K20aq1a/2db0p_lLa1q/3ae/f..brlc_1Ld/b)$ 3lrpla(1qH/u3\ql.m..pa1e/3fb\ol1oK/E3/Mc.L<_dN(I_IEF1p/3aM\c..lc.K.1ag/a3/dblp1/La 2p\1aq/H2/cLld1/br3q\.ae.f1/br3u01ql/m3(pL1d/3ad/b\.pLla1/ob2N0lpa.K1/le3f\.cF.d ..rq1a/3ef\b(1ro/K3_EMIc_1Ld/N3IKNIE(1fp/a3\KI.e.lfc)F1/dr3q/.ae.f.br.c1/Ld3b\lrp.a $1/qH2u0.ql1m/3pa(e1/fb2o\1oK/E2/Mc_L/_dN1K/3NE\f..palK1/le2f0lcF.d1/rq3a\.ef.b$ $1/rc3L_(db1r/3cK\a..Mk.al.cl< o)lbN1p/3aM/c..lc.Kl.ac.K1/aM3b\1pL/d20aH.c1/Ld2b/1r$ $a/e2\fb1o/3bN(I_/EF_p1/aM3c\.lc1K/3aq(c\.lc1.rq2a0lef1b/3ra\H1/ob3N_1pa/K3($ bp.L_1da/d20bplL1/ao3b/.Np.a.lKl_e1/fc3Fl(drlq1/ae3f\.br.c..Ld1b/3rc/Kl1aM/k2\ac1l /2ob/NI1pa/e3\fb.o..oK.E1/Mc3L\ldN1o/3bN/a..Eb<b1/pL3d(1aH/c30Ld1b/3rc/K\.br.p1 $\frac{3}{4}$ \lambda \left\right rc/L3/db.r.lcK\al/Mk\a1/cl3o(.bN1p/2ae0fl1bo/o3_KE1M/3cL(d1/No3b\.Na.E..bl1E/3Fp $/al.Mc_l1/cK2a0lgc_L(_db1r/3ga\el<fblr)1aH/b3/pL.d..aHlc..Ld.b1/rc3K\(ag1p/3aM_b<$ $. rlle.. Fq.b1/pL3d \\ aH(c_.Ldlb..ra1e/3fb \\ ol.bN_p1/aq2H0.cL.d1/br3q \\ lae1f/2br0pl1Ld/br2d \\ ol.bN_p1/aq2H0.cL.d1/br3q \\ lae1f/2br0pl1Ld/br2d \\ ol.bN_p1/aq2H0.cL.d1/br3q \\ ol.bN_p1/aq2H0.cl.d1/$

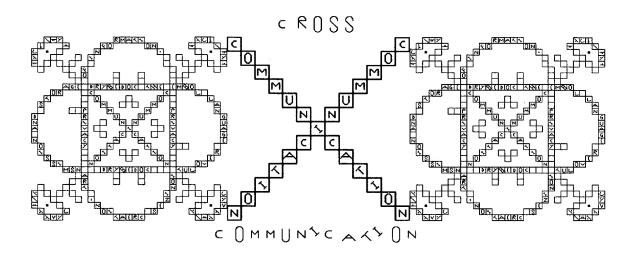
 $3\pL.d..ad.b1/pL3a//aE1b/3pa\q1/Hq3a(.ef.b1/ro3b\.Nblp1/Ld2a0lHc.L..db1r/3ae\f(1b)$ o/b3_Npla_1qH/c3lLd(bl1rq/a3\ef.b..rp.L1/db3p/laK)b1/pL2d0.ad.b1/pL3a\lob.N1/pa3K $(1le/f2\cF1d/2rp/a.1qH/c3\Ld_b/_ra<q1/ef3b\lrp1L/3db/b1/pL3d_aH(c_lLd.b1/ra3e))$ $/Ifb1o/2bN\p1/ae2f/lbo1o/3KE\M.1cL/d3(No1b/3_Na1E/3bb/p\1Ld/a3_Hc(L1/db3r\.c)$ K.b.lrp_a1/Mb3rlll(eF1q/3pa\K..bp.Ll\dald.1bp/L3\aolb1/Np2a/1Kl/e2\fclF1/dr3p/.aq_H $(_cLld1/br3q).ae1f/3br\pl1Ld/b3\p<L\1da/H3/cL1d/3br(a1/ef3b_.ob.N1/pa3e/lfb1o)$ /2oK\E1/Mc2L/ldN1o/2bN\a..Eb1p/2Ld0a\1db/p20La1a/3Eb/p..aM)c_(lc_K)\ac1K/2aM $0p1/ae2f/1bo/c20Ld.N.1KN/E3\fpla.1Kl/e3(fc1F/2dr\q1/ae2f/_br/o_1bN/p3\aq1H/3p)$ $a/el1fb/o2\oK1E/2Mc/Ll1dN/K3\NE_f(_palK1/le3f\.cF.d_1dr/p20aMlc1/lc2K0.ac7K/8a)$ M0ql1ae/f3_br1o/3bN(p)laq1H/3bp/L..da.Hl1cL/d20brla.1ef/b3\ob1N/3pa\M(1cl/c3_Ka $< c.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\Kl.le_f1/cF2d0.rl.E1/Fp3a\IMc1l/2cK0al1qa/d3\LAMBLAR + C.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\Kl.le_f1/cF2d0.rl.E1/Fp3a\IMc1l/2cK0al1qa/d3\LAMBLAR + C.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\Kl.le_f1/cF2d0.rl.E1/Fp3a\IMc1l/2cK0al1qa/d3\LAMBLAR + C.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\Kl.le_f1/cF2d0.rl.E1/Fp3a\IMc1l/2cK0al1qa/d3\LAMBLAR + C.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\Kl.le_f1/cF2d0.rl.E1/Fp3a\IMc1l/2cK0al1qa/d3\LAMBLAR + C.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\Kl.le_f1/cF2d0.rl.E1/Fp3a\IMc1l/2cK0al1qa/d3\LAMBLAR + C.lKa.Ml_pa(K_1bp/L3.da.H..ob1N/3pa\LAMBLAR + C.lka.Ml_pa(K_1bp/L3.da.H..ob1N/3pa) + C.lka.Ml_pa(K_1bp/L3.da.H.$ bp.L/1ap/a3/Mc.l.1cK/a3\IE1F/3pa(MI1cl/c20Kalq1/ad3b\.cL1d/3br_I(1EF/p3\aM.c..clI $K_1aq/a3ldblp(1La/p3\aM.c.llc)K1/ac3K/.aM.l.1EF/p20aM.c.1lc/K3\aqla.1db/c3(Ld1b/2)$ $rl\E1/Fp2a/.Mc.l1/cK3a_qc/L...db1r/3aH/ol1bN/c2\Ld1N/2aH/ol1Br/a3\ef.b..pL.d1/a$ $\label{locality} \begin{tabular}{ll} H3c\Ld(b_lrc_K1/br2c0lKb1r/2ka0c8/lc9K0laM1p/3aK_p1/La3p()Ldla1/db3p/.La.c/\Ldlabel{locality} La.c/\Ldlabel{locality} La.c/\Ldlabel{locality} \begin{tabular}{ll} H3c\Ldlabel{locality} La.c/\Ldlabel{locality} La.c/\Ldlabel{locality}$ $d1N/3KN(E1/fp2a0IKp1/aK3b_1pL/d3(aH1o/3bN\p..aK1I/2ef0c_IFd1r/3pa/q..HcIL_1db/aK1V2ef0c_IFd1r/aK1V2ef0c_IFd1$ r3lqale(1fb/r3\pL.d.<bb.p.1Ld/a3\HclL1/db3r/.ae.f..bo1b/3NI/E)IFp1a/3Mc\II1cK/a2/qc $1L/2db\r11qa/e3/fb.r11aH/I3\EF(p1/aM3c_.lclK.<aqla_(db_c1/Ld3b_rl1E/2Fp0al1Mc/I3)$ \cK.a.1qc/L3\dblr1/cK2b01rp/a3\Mb.r.lle/F1/qu3q/.lm.p1/ae2f\1bo/o3(KEIM1/cL2d0IN o1b/3Na\E..bl1e/3Fq_p(1aM/b3\rc.K.1br/c3lLd_bl.rc.K1/aM3k\(aclll)ob1N/3pa/K..lelf1/ $cF2dO1rc/K3 \aq.a. 1 db/p3 (La1c/2Ld \b1/ru2q/_lm/c_1Ld/N3 \ob. N. 1 aE/b3/cLld1/br2c \again to the control of the control o$ 1Ka/M2/kalc1/lo3b\.NI.E_(Fp_al1Mc/I3\cK.a._ga1d/2bp0Ll1ap/a20gH.c.|Ld1b/3rp(L1/a $o3b_5NI/E60Fp)aI1Mc/I3/cK.a.1qa/d3\bclL1/db2r/1qa/e2\fblr1/cL3d/1br/o20Br\\o1/br/o20Br$ $/mp3L_1da/d3(bp_L1/ao2b0lNp1a/3Kl/e..fclF_(dr_q1/ae3f\.br.o1/KE3M/lcL1d/2NK\N)$ 1/Ef2p/laK1l/3ef\c<lFd<r..pa1q/3Hc\Ll1db/r3/qa.e..fb.r1/pL3d/lbp1L/2db\p1/La2a/lE b1p/3ae\f..bo.o.1KE/M3/cL)dl.NalH.1oB/r3_ae(f1/bc3L\.db.r.lpa.K<.bp.L1/da3H_cL(d_ lbrlc1/Kb2r\1pa/M2/brlil)eF1q/3pa/K..bp<L..da1d/3bp/Ll1ao/b3\Np.a..Kl.e1/fc3F\ldr_q 1q/3Ho_b.lNq.a<.ef.b1/rb3\pL_d(_palq_1Hc/L20dblr1/cK3b\.rp.a1/Mb3r\lle1F/2qp0al1 Kb/p3\Ld.a./db1p/3La/o..bN1p/2aK\l1/ef3c(Fd1r/3IE\Fl1pa/M20cllc..Ka1g.3ad\b(1pL/ a3_pale_1fb/o3loK(El1Mc/L3\dN.o..bN.a1/Eb3p/lLd)a1/db2p01La/o3/bNlp.1aK/l3(ef1c/ $2Fd\r1/pL2d/.pa.q1/Hc3L_db/r_<ae1f/3bo\bl1Np/a3/qHlc_(Ld_b1/rq3a\.ef.b..rp1L/3$ db/pl1ae/f2\bo1o/2KE/Ml1cL/d3\No.b..Na.E1/bb3p\(Ld1a/3Hc_L.ldb.r.lcK.b..rp1a/3Mb\ r(1le/F3_qp.al.Kb<p.1Ld/a3\dblp_(La_o.lbN1p/2aK\l1/ef2c/lFd.rl)pa1q/3Hc/L..db.r1/ga 3e\lfb1r/2uq/l1/mp2a\lef1b/3oo/K..EM1c/3Ld/N1/ob2N0\aE1b/2cK0a._qc(L_)dblr)1cK /b3/ru.q..lmlp\lLd.a..db1p/3La\o(1bN/p3_aK1c/3Kalq_ladlb(1pL/a3\ob.N..gale\lfb.r..oK 1E/3Mc/LI1dN/o2\bN1a/2Eb/ql1ae/f3\br.c..Ld.b1/ro3B/lro)b..Na1H/3bp\Ll1da/H3/cl.d. <br.a.1ef/b3/oblN1/pa2M/1cl/c2\Kalc1/Ka3M\.pa.K..bp1L/3da/H1/ob2N0\pa1K/2leOf)</pre> $_{cF(d_1rp/a20qHlc)1Ld/b2/rgla1/ef2b01ra/H3\qa.e.1fb/r3(cL1d/2br\o1/Br2o/_bN/p)}$ _1aq/H3\pa.f..eb.o1/oK3E\1Mc/L3_dn1K/3NE(fl1pa/K20le.f._cF1d/2rp0al1qH/c20Ld_b $.lrg1a/2ef0b..rp1L/3db/pl1Ld/a2\db1p/2La/al1Eb/a3\Ho.b)lrk1a/3cl/l..EF<p..aM1c/3lc$ $/KI1aq/c3\Ld.b..rqla..ef.b1/ra3H\(ob1N/3pL_d.laH.c<lLd_b(_rq1a/3ef\b..rc.KI1br/p2\a$ q1H/2cL/dl.brlp)1La/o3/bN.l..EF.p1/aM3c\1lc/K3(aq1a/3db_cl1Ld/b20rl1E/2fp0a_IMc_I $1/cK2a0lqa1d/2bp0Ll1ap/a20qHlc1/Ld3b\1rq/a3_ef(b1/ru3q\.lm.p.laK.b<)plld1/ad3b/.$

 $pL.allob/N3\palk/2leOf.1cF/d3Orp1a/2Kb\pl/Ld2a/_Ho/b_1Np/a3\kl.e/\fc1F/3dr(q1)$ $3 le f..cF1d/2rq0al1ef/b3 rc.L.1db/r3_cK1a/3Mk(a._cl1o/2bN0pl.Ld.a_1db/p20Lala1/Ed$ $b2q0.ae.f/.br\c1/Ld3b(1rp/a3\qH1u/3ql_m1/pa3e(lfb1o/2oK0E1/Mc2L0_dNlK1/NE3f/.$ $pa.Kl_le1f/3cFldl_rq(a_1ef/b3\rc.L.1db/r3(cK\a..Mk/a.1cl/o20bNll1/Ef3p(1aM/c3_lc1K))$ /3aq\a..db.p.1La/p3/aqlH._cL1d/2br0ql_ae(f_1br/u3\ql.m.<palK)lbp1l/3da/d..bp<Lllao_ $b(_Np1a/3Kl\el1fc/F2\dr1p/2aK/bllpL)d1/aH3o/)bN_p(_aK\l1/ef5c/6Fd/r_1lE/F20palM)$ $\cl(c_Ka1q/3ad\b_1pL/a20palq1/Hc2L08db/r90oblN1/lE3F_1pa/M3(cllc<1Ka/q3\ad1)$ b/5cL/d5/br6p/\ae(f1/bo3o\<KEIM7/cL8d01No/b3_Na1E/3bl0El1Fp/a20Mcll_1cK/a20q $clL1/db2r/1aH/o2\bNlp1/Ld2a0\Hc1L/2db0r/)qa_e(_fb\rl1cK/b20rp1a/3qH_c1/Ld3b($ $Hlo1/br3k\(ac1l/3lE_F5/pa6M/1cl/c3\Ka1q/5cL/d_1br/q20aelf1/br3a\< Holb1/Nc3K\landarder{1}{la} + (ac1l/3lE_F5/pa6M/1cl/c3\Ka1q/5cL/d_1br/q20aelf1/br3a\< Holb1/Nc3K\landarder{1}{la} + (ac1l/3lE_F5/pa6M/1cl/c3\Ka1q/5cL/d_1br/q20aelf1/br3a\< Holb1/Nc3K\landarder{1}{la} + (ac1l/3lE_F5/pa6M/1cl/c3\Ka1q/5cL/d_1br/q20aelf1/br3a\C + (ac1l/3lE_F5/pa6M/1cl/c3\Ka1q/5cL/d_1br/q20aelf1/br3a)$ $3_oblN<1aE/b3/pLld)<aHlcl_Ld(b_1rc/K3\brlc1/Kb2r\1ka/c2/lclKl)aM1p/3aK/p)_La(o_1)$ \bN1c/5Ka/q6/cL_d1/br2a0lHt\P_(cK_al1Mp/a3\Kc_L1/db2r0loB1r/2ob0N8/bc9K0laM $1t/3Pc_K1/br3c(IKa<q1/ad3b\1cL/d5/br5p/6Ld/t\(Pp1L/3ap\a<IKc7K/8aq0c1/Ld3b_t/d5/br5p/6Ld/t)$ 1ra/H30cKlb1/rk2a0lcl_c1/Ka2M0lpa1K/2pL/a1/cL2d\lNo1b/2Na0e\1fb/c20Ld/N)_aH(o_\Brla1/ef2b01cK/a3_qa1d/3bc(L/ldb_r1/pL2d0laH<c)_Ld(bl1ra/e3\fblc1/Ka2q\1cL/ $d2/brlal(Hc1K/3aq\c1/Ld3b_ra(H_lob1N/3pL\d(1ad/b3_pL5a/6pa/K1/bc3L\1db/r5/pl))$ _a1/ob2N0lcL1d/3No\b<lNa1e/3fb\pl1Ld/a3/Ho1b/5Na_el1fb/c2/Ka1q/2cL\dl5br/a6/ $Hb1c/3Ka\M1/tP5c/1Kb/r3\cL(d1/Na3H_loB<r1/ae3f/lbp)L<ldtlP_(pL_a1/pa3K\lmb1k)$ /2cK\a1/Mt2P/lcKlb)1rc/K3/aq)a_(db_c\1Ld/b5/rp6L/_dt1P/2pL0al\pa_K(_cKla1/qc3 $L\db1r/2aH0cl1Kb/r20ka8c/9lc0Kl1aM/p3_aK1p/3La(cl<Ld1N/3ob\N1/ae5f/5bc/L6/$ $dN\a(1Ho/B3\ra<ei7fb/p80Ld1a/3db_p1/La3o0lbN1p/2aK0cl_Ld1b/2rp0Ll1ao/b2/Nc1L$ /2db\rl1oB/r20ob\N1/cL2d0/No)b_(Na_E\lbb1c/2Ka0M1/tP3c_1Kb/r3(cK/al_ga1d/2bc OLI < db)r_(cKla1/qc3L\idb1r/2aH\c1/Ka2q/ladlb(1cL/d3\br1o/3bN\b_(cK_al1Mt/P3\cK_al1Mt/ $1 Mk/a5_cllc1/Ka2q/1cL/d2\brla5/Ha6d/1bc/L3\db1r/5cK/a1/qc3L\(db1r/3cK_bl< ru1)$ q/3lm/cl)Ka<qllcL_d(_br1a/3ef\bl1ob/N2\pa1K/2pa/qllHc)L1/db3r/)pL_d(_bc\K1/aq5a /6db/c_1Ld/b20rclL_db(r_lpL1a/3ob\N_1pL/d20aHlc1/Ld2b08rc/K90brlc1/Ka3q_1cL /d3(brlc<1Ka/M3\ka1c/5lo/b5/Nc6L/\dN(c1/Ka3q\<cLld7/br8a01Ho/b3_Nb1c/3Ka0Ml $1tP/c20Kblr_1cK/a20qald1/bp2L/1ac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\dblr1/pL2a0\ob1N/2cK0a/)qa_d(_bc\Ll1db/rac/L2\db/rac/L2$ 20cL1d/3br_o1/Br3o(/bNic_1Ka/q20cLid<)br_c(IKa1M/3ka\cl1lo/b2\Nc1L/2dN/cllLd(N 1/aH3o\1Br/a3\ef_b(_pLld1/ad3b\(pL1a/3aE_b5/cL6d/1No/b3\Na1E/5bc/L_1db/r20o Blr1/ob3N\<cKlb1/rc3L\ldb1r/3cK/a1Mk/a5_cllo1/bN2p/1aK/p2\Ldla5/db6p/1La/o3\b $N1p/5aK/c1/Ld3N\(KN1E/3fp_al<Kc1L/3dN/ol)bN<allEb_c(_Ka1q/3cL\dl1br/c2\Kb1r/2)$ $uq/lllmb) o1/Br3t/) Pc_K(_aq\c1/Ld5b/6ra/e_1fb/p20Ldlb_pL(d_laH1c/3Ld\b_1rc/K2) Pc_K(_aq\c1/Ld5b/6ra/e_1fb/p20Ldlb\c) Pc_K(_aq\c1/Ld5b/6ra/e_1fb/p20Ldb\c) Pc_K(_aq\c1/Ld5b/6ra/e_1fb$ Obrlc1/Ld2b08rp/L90aolb1/Nc3K_1aq/a3(dblc<1Ld/b3\rc1K/5aq/c5/Ld6b/\rc(K1/br3 u\<qllm7/pLd80ad1b/3pL_a1/ob3N0lpa1K/2cL0dl_No1b/2Na0El1bb/o2/Br1t/2Pc\Kl1ag /c20Ld\b1/ra2e0/fb)p_(Ld_b\lpL1d/2aH0c1/Ld3b_1rc/K3(br/cl_Ld1b/2rp0Ll<ao)b_(N $plL1/da3d\lbp1L/2ao\b1/Np2a/IKclK(1aq/c3\Ld1b/3rc\K_(aM_kl1ac/l3\ob(N1/cL3d_5))$ Nc/L6/dN1a/3Ho\B1/ra5e/_fb1p/2Ld0al1db/p3\La<al1Eb/c3\LdlN1/ob3N/1aE/b5_cLld $1/br2o/1Br/o2\bNlb5/oB6r/1tP/c3\Ka1q/5cL/d1/br3a\(ef1b/3pL_dl<bp1L/3da/HI)cL$ $< dllbr_c(\Kb1r/3pL\dl1ad/b2\pL1d/2ob/Nllpa)k1/cL3d/)br_u(\ql\m1/cL5d/6No/b_1Na)k1/cL3d/$ /E20bclL_dN(o_lbN1a/3Eb\a_1Hc/L20dblr1/ae2f08bo/b90NclK1/aq3c_1Ld/b3(ralH<1

 $ob/N3\cK1a/5qc/L5/db6r/\cK(b1/ru3q\cMp7/Ld8aO1Hc/L3_db1r/3cK0bl1rc/K2Oaqlc)$ $_1Ld/b20ralH1/pL2d/1aH/c2\Ldlb1/rc2K0\br1c/2Ld0N/)ob_N(_ae\fi1bc/K20aq1c/3Ldb1/rc2K0)ob_N(_ae\fi1bc/K20aq1c/3Ld$ $_b1/ra3e(/fblp_1Ld/b20oblN<)ae_f(lbp1L/3da\dl1bp/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/2Np/allKp(L1/da3H\1ob/L2\ao1b/L$ $N3\ae_f(_bplL1/da3H\cL1d/3br_a5/ef6b/1pL/d3\ad1b/5pL/a_1aE/b20pLld1/tP3p\cL2b/b20p\cL2b/b20$ $alp1/aK3p\ld1a/3Hc/L1/db5r_lcK1b/2rp/L1/da2d\lbp5L/6ao/b1/Np3a\1Kp/L5/da1H/$ $3cL\d(1br/a3_eflb<1pL/d3/adlb)<pLlal_ob(N_1pa/K3\cKla1/qc2L\1db/r2/cKlal)Mk1a/3$ $cl/o)_bN(c_\Ld1N/5cK/a6/qa_d1/bp2L0lap\L_(da_Hl1cL/d3\br_a1/ef2b0lpa1M/2br0c)$ $8/Kb9r0lbq1a/3ef_b1/ro3b(INc< K1/aq3a\1db/p5/La5c/6Ld/b\(ru1q/3lm\p< ILd7a/8db)$ 0p1/La3o_1bN/p30aKlp1/Ld2p0laq_H1/ob2N0lpa1K/2cK/a1/qc2L\ldb1r/2ae0f\1bo/b2 $0 Np/a)_K b(c_KalM1/tP2c01Kb/r3_cK1a/3qc(L/ldb_r1/aH2o0lbN< c)_Ka(ql1ad/b3\plla_r1/aH2o0lbN< c)_K$ $1/cL2d\1br/p2/Lalol(bN1c/3Ka\q1/ad3b_cL(d_lbr1c/3Ld\N(1ob/N3_aE5b/6cK/a1/qc))$ $3L\1db/r5/aH_b1/cK2a0IMk1a/3cI\p<ILd1t/3Pp\LI1ap/a3/Kc1K/5ag_cI1Ld/b2/rc1K/2$ $br\u15ql/m6/pL1d/3ad\b1/pL5a/1ob/N3\pa(K1/cK3b_lrc<L1/db3r/lcK)a<lMkla_(cl_o1/m6/pL1d/3ad\b1/pL5a/1ob/N3)a(K1/cK3b_lrc<L1/db3r/lcK)a<lMkla_(cl_o1/m6/pL1d/3ad\b1/pL5a/1ob/N3)a(K1/cK3b_lrc<L1/db3r/lcK)a<lMkla_(cl_o1/m6/pL1d/3ad\b1/pL5a/1ob/N3)a(K1/cK3b_lrc<L1/db3r/lcK)a<lm>$ $bN3p\a(1p/2aM\b1/rc2K/lbrlb)1qa/e3/fb)r_(ob_N\1ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\1ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\ae/f5/bp6L/_da1d/2bp0Ll\ao_b(b)r_(ob_N\ae/f5/bp6L/_da1d/2bp0Ll\ae/f5/bp6Ll\ae/f5/b$ _Npla1/Kk3b_mc1K/2aM0kl1ac/l20pL8d/9aH0ol1bN/a3_ef1b/3cK(bi<rc1L/3db\r1/cK $5a/5Mk/a6/cl\o(1bN/p3\aK<pl7Ld/a80db1p/3La_o1/bN3p0laK1p/2Ld0al_Hc1L/2db0rl11d1ab0$ ae/f2/bc1K/2aq\al1db/p20La\p1/Ld2a0/Hc)L_(db_r\lcK1b/2rp0L1/da3d_1bp/L3(aa/El _bb1c/2Ka0Ml<ka)c_(lplL1/da3H\lcL1d/2br\c1/Kb2r/loblN(1ae/f3\bc1K/3br\c_(Ld_bl1 $rc/K3\aM(k1/ac3l_5ob/N6/pa1K/3pL\d1/ad5b/_pL1a/2ob0Nl1pa/K3\pL<dl1aH/c3\Ldlb$ $1/ra3e/1fb/p5_Ldla1/Ho2b/1Np/a2\Kklb5/mc6K/1aM/t3\Pc1K/5br/p1/Ld3t\(Pp1L/3)$ $ap_a|< Kp1L/3da/H|)cL< d||br_a(_ef1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\bp1L/2ac/K||aM|)a1/Ho3B/)ra_e(_f1b/3cK\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|1qa/d2\a|$ b\c1/Ld5b/ru6q/_lm1p/2Ld0pl\aq_H(_oblN1/qa3e_fb1r/2aH0cl1Ld/b20ra8e/9fb0ol1 $bN/b3_cK1a/3Mk(al<cl1p/3Ld\a1/db5p/5La/o6/bN\p(1aK/c3\Ld<bl7rc/K80br1c/3Ka_$ M1/ka3c0llo1b/2Np0al_Kc1K/2aq0al1db/p2/La1p/2Ld\al1Hc/L20db\r1/ae2f0/bp)L_(da $_H\lower Ld)a_(HclL1/db3r\lower Ld)a_(HclL1$ $q2c/Ldlb(1ra/H3\ob1N/3oK\E_(Ma_Hl1oB/r3\ae(f1/bp3L_5da/H6/cL1d/3br\c1/Kb5r/ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3L_5da/H6/ba)ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3L_5da/H6/cL1d/3br)ae(f1/bp3$ _pL1d/2aH0cl1Ld/b3\ra<el1fb/p3\Ldla1/db3p/1La/o5_bNlp1/aKp2/Ld1a/2Ho\bI5Na/e $6/fb1p/3Ld\a1/Hc5L/1db/r3\ae(f1/bp3L_lda<d1/bp3L/laa)E<lbclK_(aq_c1/Ld3b\lra1e)$ /2fb\p1/Ld2b/lpLld)1tP/p3/La)p_(aK_c\1Ka/q5/ad6b/_pL1a/2cK0al\qc_L(_dblr1/ae3f $\begin{tabular}{l} \begin{tabular}{l} \begin{tabu$ $\label{lem:mass} $M\b(1rc/K3\br<bl/>b17qa/e80fb1r/3pL_d1/ad3b0lpL1a/2ob0Nl_pa1K/2cK0al1qc/L2/db1r/ad3b0lpL2/db1r/ad3b0lpL2/db1r/ad3b0lpL2/db1r/ad3b0lpL2/db1r/ad3b0lpL2/db1r/ad3b0lpL2/db1r/ad3b0lpL2/d$ 2cK\al1Mk/a20cl\o1/bN2c0/Ld)N_(cK_a\lqa1d/2bp0L1/ab3c_1Ka/M3(tP/cl_Kb1r/2pa0 $q/Hc)L_(dblr1/pL3d)lbp1L/2da)H1/cL2d/lbrla(1ef/b3)1cK/a3\qa_d(_bplL1/ac3L)(db1)$ $r/3pL_a5/ob6N/1cK/a3\qa1d/5bc/L_1db/r20cLld1/br3o\<Brio1/bN3c\lKb1r/3cL/d1/br3o$ $r5c_lKa1M/2ka/c1/lo2b\\lNp5a/6Kp/L1/da3d\\lbp/L5/ao1b/3Np\\a(1Kc/K3_aqlc<1Ld/b)$ 3/rclK)
 $d(m_1pa/M3\brlc1/Kb2r\1ba/q2/eflbl)rc1K/3aq/c)_Ld(b_\rc1K/5aM/k6)$ /ac_l1/ob2N0lcL\d_(Nc_Ll1dN/a3\Ho_B1/ra2e0lfb1p/2Ld0a8/db9p0lLa1a/3Eb_a1/Ha3 $E(Ibo < B1/rk3a \ 1cl/c5/Ka5q/6cL/d \ (br1a/3Hb \ c< IKa7M/8ka0c1/lp3L_1dt/P30pLla1/pa)$ 2K0lcK_b1/rc2L0ldb1r/2cK/a1/Mk2a\lclo1/bN2p0\aK1p/2Ld0a/)db_p(_La\ol1bN/p20a K1p/3Ld_a1/Hc3L(/dblr_1ae/f20bpla<)qH_c(ILd1b/3rp\Ll1db/c2\Ld1N/2ob/NllaE(b1/b $o3B\1rt/P3\cK_a(_qclL1/db3r\(ae1f/3bp_L5/db6p/1Ld/a3\Hc1L/5db/r_cK1b/2rc0Ll1)$ $db/r3\pL<al1ob/N3\cKla1/qa3d/1bc/L5_dblr1/cK2a/1qc/L2\dblr5/cK6b/1ru/q3\lm1p$ /5Ld/a1/db3p\(La1o/3bN_pl<aK1c/3Kb/rl)cL<dllbr_c(_Ka1M/3ka\cl1lo/b2\Np1a/2Kp/a llMb)r1/cK3b/)rb_q(_ae\f1/br5c/6Ka/q_1ad/b20pLla_cL(d_lbr1p/3La\o_1bN/c20Kalq $1/ad2b08cL/d90brlc1/Ld3N_1ob/N3(aElb<1cK/a3\qc1L/5db/r5/aH6b/\cK(a1/Mk3a\<c$

 $llp7/Ld8t01Pp/L3_ap1a/3Kc0Kl1br/c20Ldlb_1rc/K20aMlk1/ac2l/1ob/N2\palK1/pL2d0\palK1/ac2l/1ob/N2\palK1/pL2d0\palK1/ac2l/1ob/N2\palK1/pL2d0\palK1/ac2l/1ob/N2\palK1/pL2d0\palK1/ac2l/1ob/N2\palK1$ $ad1b/2pL0a/)ob_N(_pa\Kl1pL/d20aH1c/3Ld_b1/ra3e(/fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(lLd1b/ra3e(fblp_1aq/H20cLld<)br_p(l$ $3cL\dl1No/b2\Na1E/2bo/bllNc(K1/aq3a\1db/p3\La_c(_Ldlb1/ru3q\(lm1p/3Ld_a5/db6p))$ $/1La/o3\bN1p/5aK/p_1Ld/a20Holb1/Np3a\< KclK1/aq3c\ld1b/3ra/e1/fb5o_lbN1p/2a$ $\label{lem:kb1/cK2a} $$K/b1/cK2a\Mt5P/6cK/b1/rc3K\1aq/c5/Ld1b/3rc\K(1br/u3_qllm<1pL/d3/adlb)<pLlal_table_t$ $ob(N_1pa/K3\cKla1/qa2d\1bc/L2/dblrl)cL1d/3No/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H)cl1d/ANO/b)_Na(E_\bc1K/5aq/c6/Ld_b1/ra2H$ $Olob\N_(cK_al1qa/d3\bp_L1/ac2L0ldb1r/2pL0a8/ob9N0lcK1a/3qa_d1/bc3L(ldb<r1/cL3))$ $d\1No/b5/Na5E/6bc/K\(aq1c/3Ld\b<lra7H/8bc0K1/aM3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/tP2p0lLa_p1/am3k_1ac/l30pLld1/t$ $a K2c0 Ld1n/2aH/o1/Br2a \end{align*} lef1b/2pL0d \end{align*} lef1b/2$ $/3Kp(L/lac_K1/aq2a0ldb < p)_La(pl1Ld/a3\HclL1/db2r\1ae/f2/bblpl(Ld1p/3aq\H1/cL3d\L2d))$ $_br(c_lKb1r/3pa\M(1br/l3_eF5q/6pa/q1/Hc3L\1db/r5/pL_a1/oB2N0llE1F/3pa\M< lcl1c_lcl$ $/3Ka\ql1ad/b3/cL1d/5br_ll1EF/p2/aM1c/2lc\Ll5db/r6/cK1b/3rp\a1/Mb5r/1le/F3\qu(q)$ $1/\text{Im}3p_ILd < a1/db3p/ILa)o < lbNlp_(aK_I1/ef3c) IFd1r/2IE \F1/pa2M/lcIlc)1Ka/q3/ad)b_(pax)$ $1ao/b3_Np1a/3KI(el<fc1F/3dr\\11/EF5p/5aM/c6/lc\\K(1aq/c3\\Ld<bl7ra/e80fb1o/3bN_p)$ $1/aK3l0lef1c/2Fd0rl_pL1d/2aH0ol1bN/p2/aK1l/2ef\cl1Fd/r20qa\e1/fb2r0/ob)N_(pa_q)$ \IHI1e/2Fq0p1/aM3b_1rc/K3(br/cl_Ld1b/2rc0Kl<aM)k_(acli1/ob3N\lpa1K/2le\f1/cF2d/ $lrpla(1qH/c3\Ld1b/3rq\a_(ef_bl1rp/L3\db(b1/pL3d_5aH/c6/Ld1b/3ra\e1/fb5o/_bN1b))$ /2pL0dl1aH/c3\Ld<bl1rq/a3\eflb1/rc3K/1br/l5_EFlp1/aM2c/1lc/K2\aglc5/Ld6b/1ra/e $3\fb1o/5bN/p1/Ld3b\(pa1e/3fb_ol<oK1E/3Mc/Ll)dN<ollbN_a(_Eb1g/3ae\fl1br/c2\Ld1)dN<ollbN_a(_Eb1g/3ae\fl1br/c2\Ld1)dN$ $b/2rc/KllaM)k1/ac3I/)ob_N(_pL\d1/ad5b/6pL/a_1aE/b20pale_fb(o_loK1E/3Mc\L_1dN)$ /o20bNla1/Eb2q08ae/f90brlc1/Ld3b_1rc/K3(amlk<1ac/l3\ob1N/5pL/d5/ad6b/\pL(a1/ ob3N\<palK7/le8f01cF/d3_rp1a/3Mb0rl1cK/b20rblq_1ae/f20brlp1/Ld2a/1Hc/L2\dblr1 /cK2b0\rp1L/2da0d/)bp_L(_ao\bl1Np/a20Kp1L/3da_H1/ob3N(/palK_1cK/a20qclL<)db_ $r(lcK1b/3ru\ql1lm/p2\Ld1a/2db/pllLa(o1/bN3p\1aK/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\Ld1a/2db/pllLa(o1/bN3p\1aK/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\Ld1a/2db/pllLa(o1/bN3p\1aK/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\Ld1a/2db/pllLa(o1/bN3p\1aK/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\Ld1a/2db/pllLa(o1/bN3p\alk/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\alk/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\alk/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\ql1lm/p2\alk/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\alk/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka_q)) = r(lcK1b/3ru\alk/l3\ef_c(_Fdlr1/pa3M\cl1c/3Ka)) = r(lcK1b/3ru) = r(lcK1b/$ 5/ad6b/1cL/d3\br1p/5ae/f_1bo/o20KEIM1/cL3d\<NoIb1/Na3E\lbp1L/3da/d1/bp5L_lao $1b/2Np/a1/Kl2e\fc5F/6dr/q1/ae3f\1br/o5/KE1M/3cL\d(1NK/N3_Eflp<1aK/l3/eflc)<F$ $dlrl_qa(e_1fb/r3\oKlE1/Mo2b\1Na/E2/bqlal)ef1b/3rc/L)_db(r_\q1l/5mp/a6/qH_p1/L)_db(r_\q1l/5mp/a6/qH_p1/L)_db(r$ $d2a0ldb \\ p_(La_ol1bN/p3\aK_l1/ef2c0lFd1r/2qa0e8/fb9r0lcL1d/3br_c1/Ka3M(lka<c1/lambda) \\ d2a0ldb \\ p_(La_ol1bN/p3\aK_l1/ef2c0lFd1r/ef2$ o3b\1Np/a5/ef5b/6oo/K\(EM1c/3Ld\N<lob7N/8aE0b1/lE3F_1pa/M30clcl1Ka/q20adlb_1 $^{\circ}$ $pL/a20qale1/fb2r/1cL/d2\brlp1/aq2H0\uq1l/2mp0L/)da_d(_bp\Ll1ao/b20Np1a/3Kl_e1$ $e_f(_cFld1/rq3a\\(ef1b/3rc_L5/db6r/1cK/a3\\Mk1a/5cl/o_1bN/p20aelf1/bo3o\\< KEIM1$ /cL3d\lNo1b/3Na/E1/bb5p_lLd1a/2Hc/L1/db2r\lae5f/6bo/b1/Nl3E\1Fp/a5/Mc1l/3cK\ $a(1qc/L3_dblr<1qa/e3/fblr)< aHIII_EF(p_1aM/c3\lclK1/aq2a\1db/p2/Lalql)ae1f/3br/c)_$ $Ld(b_rp1a/5qH/u6/ql_m1/pa2e0lfb\\o_(oK_El1Mc/L3\dN_p1/aM2c0llc1K/2ac0K8/aM9)$ $b0lpL1d/3aH_c1/Ld3b(lra<e1/fb3o\\1bN/l5/EF5p/6aM/c\\(lc1K/3aq\\c<lLd7b/8rq0a1/efd)$ $3b_1ra/H30oblN1/pa2K0lbp_L1/da2d0lbp1L/2ao/b1/Np2a\lKl1e/2fc0F\1dr/q20ae/f)_$ $br(c_\Ldlb1/rc2K01aM/k3_ac1l/3ob(N/lpa_e1/fb2o0loK<E)_Mc(Ll1dN/o3\bNla1/Eb2b\1$ $pL/d2/aHlcl(Ld1b/3rc\K1/br3p_aM(b_Irl1e/3Fq\p(1aK/b3_pL5d/6ad/b1/pL3a\1ob/N5)$ /pa_K1/le2f0lcF1d/3rq\a<lef1b/3rc\Ll1db/r3/cK1a/5Mk_al1cl/o2/bN1p/2ae\fl5bo/o6 /KE1M/3cL\d1/No5b/1Na/E3\bl(E1/Fp3a_lMc<l1/cK3a/lgc)L<ldblr_(ga_e1/fb3r\laH1b/ $2pL\d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_b\1rl/e5/Fq6b/_pL1d/2aH0cl\Ld_b(_rale1/fb3o\2pL^d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_b\1rl/e5/Fq6b/_pL1d/2aH0cl\Ld_b(_rale1/fb3o\2pL^d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_b\1rl/e5/Fq6b/_pL1d/2aH0cl\Ld_b(_rale1/fb3o\2pL^d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_b\1rl/e5/Fq6b/_pL1d/2aH0cl\Ld_b(_rale1/fb3o\2pL^d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_b\1rl/e5/Fq6b/_pL1d/2aH0cl\Ld_b(_rale1/fb3o\2pL^d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_b\2pL^d1/aH2c/lLdlb)1rc/K3/aq)p_(aM_$ $_bN1p/2aq0Hl1cL/d20br8q/9ae0fl1br/p3_Ld1b/3pL(dl<ad1b/3pL\a1/aE5b/5pa/q6/Hq\$ a(1ef/b3\ro<bl7Nb/p80Ld1a/3Hc_L1/db3r0lae1f/2bo0bl_Np1a/2gH0cl1Ld/b2/rg1a/2e

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